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Equation 9.1 - Maximum Recursion Closure

Overview:

This page introduces Equation 9.1, the first formal model of the angular recursion limit for light in recursive gravitational fields. It defines the theoretical boundary at which light ceases to curve and stabilizes due to harmonic phase re-alignment with its source.

Key Insight:

Light does not bend infinitely. It curves recursively until it reaches a phase alignment with its origin vector-completing a coherent cycle of memory and returning to a stable propagation axis. This is not a visual return, but a harmonic one.

Equation 9.1:

Let theta_max be the Maximum Recursion Closure Angle.

theta_max = arccos(phi^-1)

Where:

- phi = golden ratio approximately 1.618
- theta_max approximately 51.8 degrees (angle at which recursive arc aligns with source vector in phase)

Interpretation:

This angle represents the self-limiting curve of light under recursive tension. It occurs naturally in spiral galaxies, Einstein rings, and orbital precession. It is where memory closes the loop. Once this threshold is met, light ceases to curve further and resumes linear propagation.

In the Seam Tension equation:

$$\sigma_s = S^2 / (M_g * \phi)$$

We now relate:

$$S^2 = (FC^2 * D_{void}) * \sin(\theta_{max})$$

Conclusion:

Equation 9.1 introduces a natural angular constraint for recursive light. It formalizes the limit where light stabilizes its own curve, locking into the memory field that summoned it. Beyond this, light is no longer pulled-it is free.

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